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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

REBECCA E. CAHOON

CASE NO.: BB1240USCNT

APPLICATION NO.: 10/773529

CONFIRMATION NO.:

GROUP ART UNIT: UNKNOWN

EXAMINER: UNKNOWN

FILED: FEBRUARY 06, 2004

FOR: PLANT FARNESYLTRANSFERASES

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08 and PTO-892 forms.

Benefit of the earlier filing date of U.S. Patent Application No. 09/786,675, filed March 7, 2001 is claimed under 35 U.S.C. 120 for the above-referenced application and only copies of information not previously made of record in the parent are enclosed.

Should any fee be required in connection with the filing of this Information Disclosure Statement, please charge such fee to Deposit Account No. 04-1928 (E. I. du Pont de Nemours and Company).

Respectfully submitted,

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Dated: June 2, 2004

Enclosures

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### Complete if Known

Application Number	10/773529
Filing Date	FEBRUARY 06, 2004
First Named Inventor	REBECCA E. CAHOON ET AL.
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1240 USCNT

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		DAQI QIAN ET AL., Plant Cell, vol. 8:2381-2394, 1996, Protein Farnesyltransferase in Plants: Molecular characterization and involvement in cell cycle control	
		ZHENBIAO YANG ET AL., Plant Phys., vol. 101(2):667-674, 1993, Protein Farnesyltransferase in Plants	
		SEAN CUTLER ET AL., Science, vol. 273:1239-1241, 1996, A protein farnesyl transferase involved in abscisic acid signal transduction in arabidopsis	
		S. YALOVSKY ET AL., Mol. & Cell. Biol., vol. 17(4):1986-1994, 1997, Plant farnesyltransferase can restore yeast ras signaling and mating	
		SHINGO HATA ET AL., Plant Cell Physiol., vol. 38(12):1409-1413, 1997, cDNA cloning of squalene synthase genes from mono- and dicotyledonous plants, and expression of the gene in rice	
		SYLVAIN MERLOT ET AL., Plant Physiol., vol. 114:751-757, 1997, Genetic analysis of abscisic acid signal transduction	
		E. SKOCZYLAS ET AL., Biochimie, vol. 78:139-143, 1996, Protein farnesyltransferase in plants	
		CHRISTOPHER C. FARNSWORTH ET AL., PNAS, vol. 91:11963-11967, 1994, Rab geranylgeranyl transferase catalyzes the geranylgeranylation of adjacent cysteins in the small GTPases Rab1A, Rab3A, and Rab5A	
		ZHEN-MING PEI ET AL., Science, vol. 282:287-290, Role of farnesyltransferase in ABA regulation of guard cell anion channels and plant water loss	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2246442, ACCESSION NO. AAB62580, 7/8/97, QIAN, D. ET AL., Protein Farnesyltransferase in Plants: Molecular characterization and involvement in cell cycle control	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3142698, ACCESSION NO. AAC61853, 9/29/98, BELBAHRI ET AL.	

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Group Art Unit	UNKNOWN
Examiner Name	UNKNOWN
Attorney Docket Number	BB-1240 USCNT

### NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1184953, ACCESSION NO. AAA87585, 2/14/96, CUTLER, S.R., ET AL.	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 266753, ACCESSION NO. Q02293, 9/15/03, CHEN, W.J. ET AL., CDNA CLONING AND EXPRESSION OF THE PEPTIDE-BINDING BETA SUBUNIT OF RAT P21RAS FARNESYLTRANSFERASE, THE COUNTERPART OF YEAST DPR1/RAM1	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 8347240, 6/21/00, ACCESSION NO. AAF74564, ZIEGELHOFFER, E.C., ET AL., CLONING OF THE ARABIDOPSIS WIGGUM GENE IDENTIFIES A ROLE FOR FARNESYLATION IN MERISTEM DEVELOPMENT	
		EVA C. ZIEGELHOFFER, ET AL., PNAS, VOL. 97, NO. 13, PGS. 7633-7638, 6/20/00, CLONING OF THE ARABIDOPSIS WIGGUM GENE IDENTIFIES A ROLE FOR FARNESYLATION IN MERISTEM DEVELOPMENT	
		HEE-WON PARK, ET AL., SCIENCE, VOL. 275, PGS. 1800-1804, 3/21/97, CRYSTAL STRUCTURE OF PROTEIN FARNESYLTRANSFERASE AT 2.25 ANGSTROM RESOLUTION	
		SHAUL YALOVSKY, ET AL., THE PLANT CELL, VOL. 12, PGS. 1267-1278, 8/2000, FUNCTIONAL REQUIREMENT OF PLANT FARNESYLTRANSFERASE DURING DEVELOPMENT IN ARABIDOPSIS	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 1815668, ACCESSION NO. AAC49666, 3/24/97, YALOVSKY, S. ET AL., PLANT FARNESYLTRANSFERASE CAN RESTORE YEAST RAS SIGNALING AND MATING	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 417482, ACCESSION NO. Q04903, 10/1/00, YANG, Z. ET AL., PROTEIN FARNESYLTRANSFER IN PLANTS. MOLECULAR CLONING AND EXPRESSION OF A HOMOLOG OF THE BETA SUBUNIT FROM THE GARDEN PEA	
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 169049, ACCESSION NO. AAA33649, 7/14/93, YANG, Z. ET AL., PROTEIN FARNESYLTRANSFER IN PLANTS. MOLECULAR CLONING AND EXPRESSION OF A HOMOLOG OF THE BETA SUBUNIT FROM THE GARDEN PEA	

Examiner Signature	Date Considered
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		LASSAAD BELBAHRI ET AL., Plant Phys., vol. 118:329-331, 1998, Nucleotide sequence of a putative protein farnesyltransferase subunit A from arabidopsis	
		ARNAUD GALICHET ET AL., Current Opinion in Plant Biology, vol. 6:530-535, 2003, Protein farnesylation in plants - conserved mechanisms but different targets	
		DOUGLAS A. Andrest, ET AL., The Journal of Biological Chemistry, vol. 268:1383-1390, 1993, Mutational Analysis of alpha-Subunit of Protein Farnesyltransferase	

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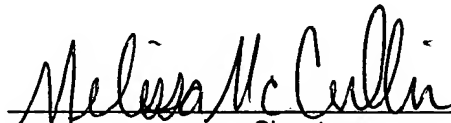
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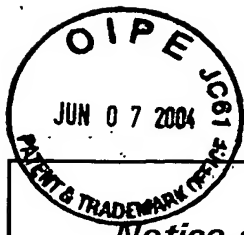
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# Notice of References Cited

Application/Control No.  
09/786,675

Applicant(s)/Patent Under Reexam  
Cahoon et al.

Examiner  
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Art Unit  
1652

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## U.S. PATENT DOCUMENTS

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## NON-PATENT DOCUMENTS

	Include, as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
U	Pei et al. "Role of farnesyltransferase in ABA regulation ....." Science (1998) 282, pages 287-290.
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